

EXP NO:11D**DATE:18/10/24****REMOTE PROCEDURE CALL FOR SORTING AN ARRAY-XMLRPC****Aim:**

To Implement an XML RPC code for sorting array

Code: Server code:

```
from xmlrpc.server import SimpleXMLRPCServer
def sort_array(arr):    return sorted(arr)
server = SimpleXMLRPCServer(("localhost", 8000))
print("Listening on port 8000...")
server.register_function(sort_array, "sort_array")
server.serve_forever()
```

A screenshot of a code editor with two tabs: 'server.py' and 'client.py'. The 'server.py' tab is active, showing the following Python code:

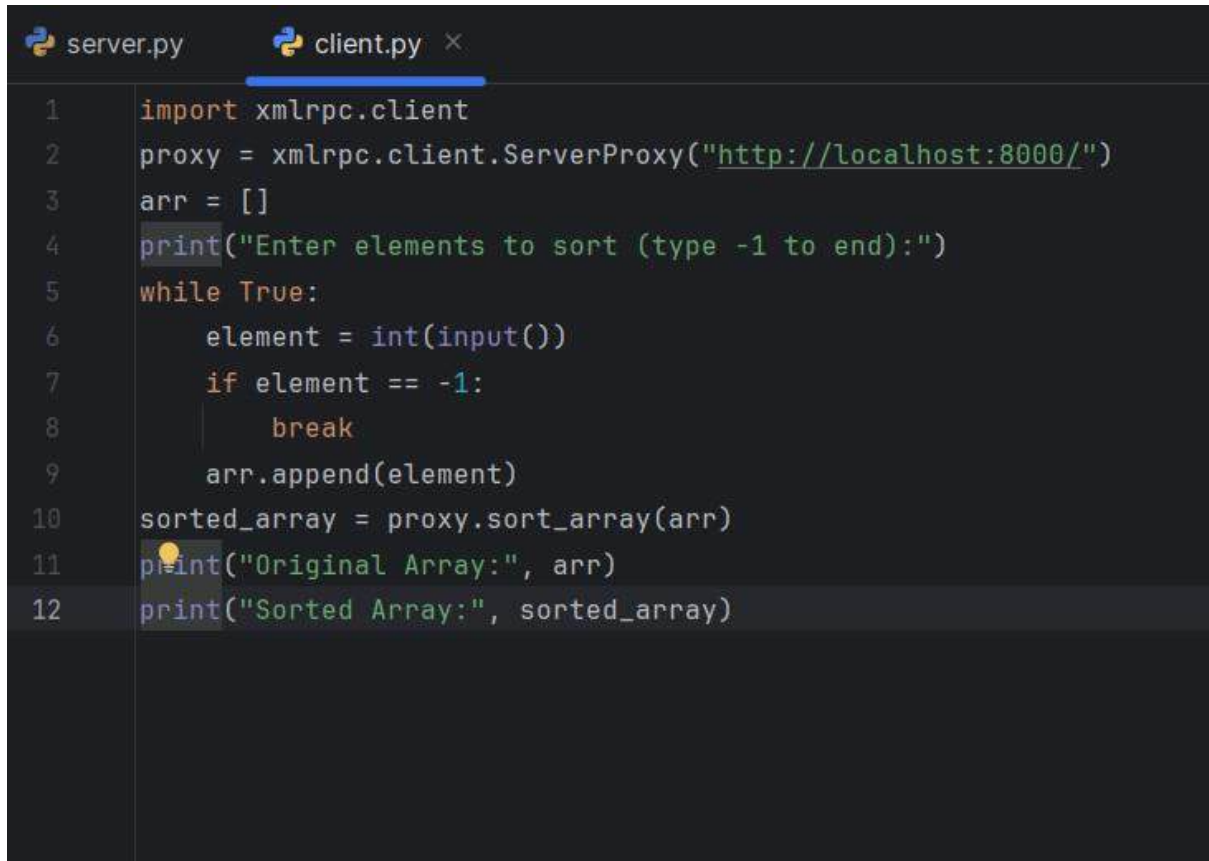
```
1 from xmlrpc.server import SimpleXMLRPCServer
2 def sort_array(arr): 1 usage
3     return sorted(arr)
4 server = SimpleXMLRPCServer(("localhost", 8000))
5 print("Listening on port 8000...")
6 server.register_function(sort_array, name="sort_array")
7 server.serve_forever()
```

Client code: import

xmlrpc.client

```
proxy = xmlrpc.client.ServerProxy("http://localhost:8000/") arr
= []
print("Enter elements to sort (type -1 to end):") while
True:
```

```
    element = int(input())
if element == -1:
    break    arr.append(element)
sorted_array = proxy.sort_array(arr)
print("Original Array:", arr)
print("Sorted Array:", sorted_array)
```



```
server.py  client.py x
1  import xmlrpc.client
2  proxy = xmlrpc.client.ServerProxy("http://localhost:8000/")
3  arr = []
4  print("Enter elements to sort (type -1 to end):")
5  while True:
6      element = int(input())
7      if element == -1:
8          break
9      arr.append(element)
10 sorted_array = proxy.sort_array(arr)
11 print("Original Array:", arr)
12 print("Sorted Array:", sorted_array)
```

Output:

For server :



```
Run  XML RPC PROGRAM- SERVER SIDE  XML RPC PROGRAM- CLIENT SIDE x
C:\Users\Sivarangini\PycharmProjects\python\.venv\Scripts\python.exe "C:\Users\Sivarangini\PycharmProjects\python\XML RPC PROGRAM- SERVER SIDE.py"
Listening on port 8000...
```

For client:

```
Enter elements to sort (type -1 to end):
```

```
34
```

```
7
```

```
9
```

```
8
```

```
15
```

```
-1
```

```
Original Array: [34, 7, 9, 8, 15]
```

```
Sorted Array: [7, 8, 9, 15, 34]
```

```
Process finished with exit code 0
```

Result:

An array is created and sorted using XMLRPC.